

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (original) A circuit element comprising:
a nucleic acid template;
two or more regions of the template coated with different materials.
2. (original) The circuit element according to claim 1 wherein each of the different materials is at least partially conductive.
3. (original) The circuit element according to claim 2 wherein each of the different materials has a different resistivity from the other.
4. (original) The circuit element according to claim 2 wherein each of the different materials is a doped semiconductor material.
5. (original) The circuit element according to claim 4 wherein the doped semiconductor material is either an n-type or a p-type semiconductor material.
6. (original) The circuit element according to claim 1 wherein the nucleic acid template is DNA.
7. (original) The circuit element according to claim 1 wherein the nucleic acid template is RNA.

Claims 8-71 are canceled.